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Web: www.orient-opto.com

1.Features

- (1) Current transfer ratio (CTR : MIN. 50% at $I_F = 5\text{mA}$, $V_{CE} = 5\text{V}$)
- (2) High input-output isolation voltage ($V_{iso} = 5,000\text{Vrms}$)
- (3) Response time (t_r : TYP. $4\mu\text{s}$ at $V_{CE} = 2\text{V}$, $I_C = 2\text{mA}$, $R_L = 100\Omega$)
- (4) Safety approval
 - UL approved (No.E323844)
 - VDE approved (No.40029733)
 - CQC approved (No.CQC09001029446 CQC13001086898)
 - CE approved (No.AC/0431008)
 - State Grid approved (No.SGCM013420170152)



2. Description

- (1) ORPC-817 photocopier consist of one piece of GaAs emitter and one piece of NPN transistor.
- (2) They are packaged in a 4-pin DIP package and available in wide-lead spacing and SMD option.

3. Applications

- (1) Switching power supply
- (2) Ammeter
- (3) Computer
- (4) Instrumental application, measurement machine
- (5) Imbursement equipments, duplicating machine, automat
- (6) Family-use electric equipments, such as fans
- (7) Signal transforming systems

4.Absolute Maximum Ratings at $T_a=25$

Input	Forward Current	I_F	60
	Peak forward current (100 μs pulse, 100Hz frequency)	I_{FP}	1
	Reverse Voltage	V_R	6
	Consume Power	P	70
Output	Collector and emitter Voltage	V_{CEO}	80
	Emitter and collector Voltage	V_{ECO}	6
	Collector Current	I_C	50
	Consume Power	P_C	150
Total Consume Power		P_{tot}	200
*1 Insulation Voltage		V_{iso}	5,000
Max Insulation Voltage (Insulating oil test)		V_{IOTM}	10,000
Rated Impulse Insulation Voltage		V_{IORM}	630
Working Temperature		T_{opr}	-55 to + 110
Deposit Temperature		T_{stg}	-55 to + 125
*2 Soldering Temperature		T_{sol}	260

*1.AC For 1 Minute, R.H. = 40 ~ 60%

Isolation voltage shall be measured using the following method.

- (1) Short between anode and cathode on the primary side and between collector and emitter on the secondary side.
- (2) The isolation voltage tester with zero-cross circuit shall be used.
- (3) The waveform of applied voltage shall be a sine wave.

*2. Soldering time is 10 seconds

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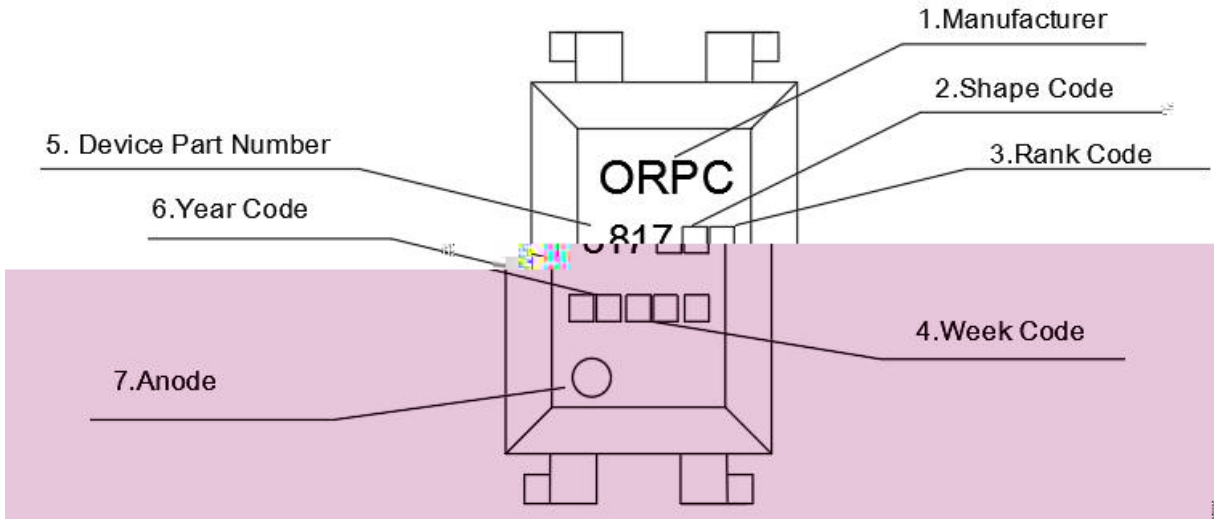
*1 Current Conversion Ratio = $I_C / I_F \times 100\%$, CTR Tolerance: 3%.

6.Rank Table of Current Transfer Ratio

(1) ORPC-817

Grade Sign	Min (%)	Max (%)
ORPC-817A	80	160
ORPC-817B	130	260
ORPC-817C	200	400
ORPC-817D	300	600
ORPC-817E	50	80
ORPC-817F	80	100
ORPC-817G	100	120
ORPC-817H	600	1000
ORPC-817I	120	140
ORPC-817J	140	180
ORPC-817K	180	220
ORPC-817L	50	100
ORPC-817M	220	260
ORPC-817N	260	300
ORPC-817O	300	340
ORPC-817P	340	380
ORPC-817Q	380	420
ORPC-817R	420	440
ORPC-817S	440	460
ORPC-817T	460	480
ORPC-817U	480	500
ORPC-817V	500	520
ORPC-817W	520	540
ORPC-817X	540	560
ORPC-817Y	560	580
ORPC-817Z	580	600

7. Naming Rule



(1)ORPC denotes Shenzhen Orient Tech Ltd . Co ., Ltd.

(2) □ denotes Shape Code.

(3) □ denotes Rank code.

(4) □ denotes Week code.

(5) □ denotes Device Part Number.

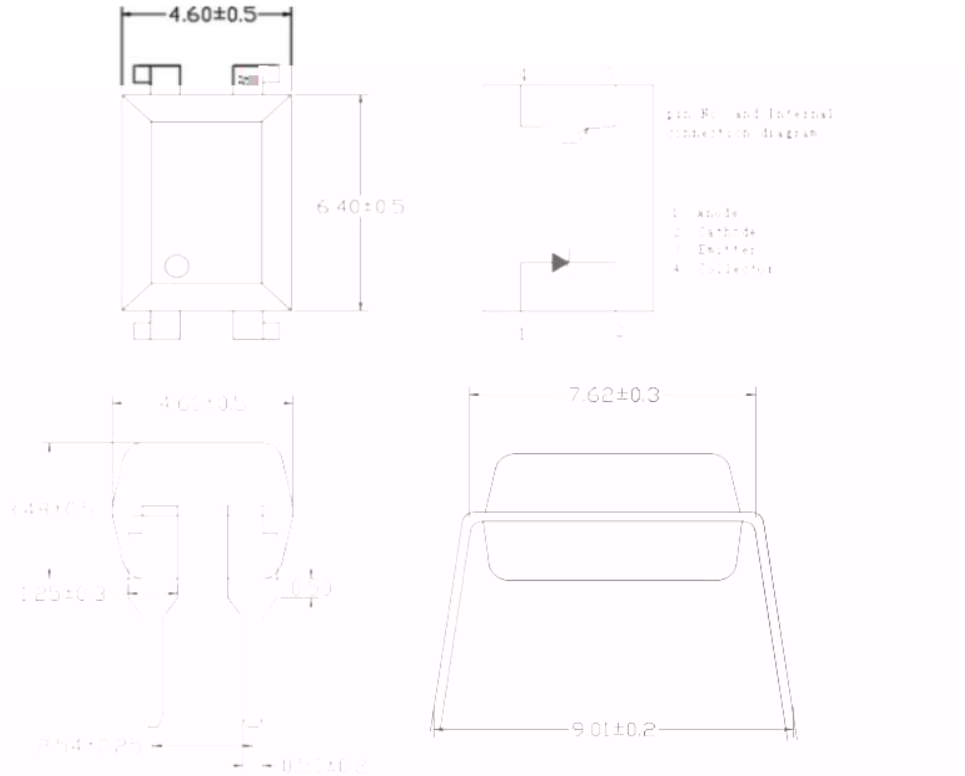
(6) □ denotes Year Code

(7) Anode.

(8) Unit:mm

8. Package Dimension (Unit mm)

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